

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/521,206
Source: PCP/10
Date Processed by STIC: 1/25/05

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY
FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05): U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/24/05

Raw Sequence Listing Error Summary

<u>ERROR DETECTED</u>	<u>SUGGESTED CORRECTION</u>	<u>SERIAL NUMBER:</u> <u>10/521,206</u>
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE		
1 <input type="checkbox"/> Wrapped Nucleic Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2 <input type="checkbox"/> Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	
3 <input type="checkbox"/> Misaligned Amino Numbering	The numbering under each 5 th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.	
4 <input type="checkbox"/> Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.	
5 <input type="checkbox"/> Variable Length	Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.	
6 <input type="checkbox"/> PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.	
7 <input type="checkbox"/> Skipped Sequences (OLD RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped	
	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.	
8 <input type="checkbox"/> Skipped Sequences (NEW RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000	
9 <input type="checkbox"/> Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.	
10 <input type="checkbox"/> Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence	
11 <input type="checkbox"/> Use of <220>	Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)	
12 <input type="checkbox"/> PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 <input type="checkbox"/> Misuse of n/Xaa	"n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid	



PCT

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/521,206

DATE: 01/25/2005
TIME: 09:48:39

Input Set : A:\PTO.FG.txt
Output Set: N:\CRF4\01252005\J521206.raw

3 <110> APPLICANT: The Trustees of Columbia University in the City of New York et al.
5 <120> TITLE OF INVENTION: Multiplex Genotyping Using Solid Phase Capturable
Dideoxynucleotides And
6 Mass Spectrometry
9 <130> FILE REFERENCE: 0575/66833-A-PCT-US
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/521,206
C--> 12 <141> CURRENT FILING DATE: 2005-01-12
14 <160> NUMBER OF SEQ ID NOS: 14
16 <170> SOFTWARE: PatentIn version 3.2
18 <210> SEQ ID NO: 1
19 <211> LENGTH: 19
20 <212> TYPE: DNA
21 <213> ORGANISM: Artificial Sequence
23 <220> FEATURE:
24 <223> OTHER INFORMATION: primer
26 <400> SEQUENCE: 1
27 ctaccccccag aacatcacc 19
30 <210> SEQ ID NO: 2
31 <211> LENGTH: 22
32 <212> TYPE: DNA
33 <213> ORGANISM: Artificial Sequence
35 <220> FEATURE:
36 <223> OTHER INFORMATION: primer
38 <400> SEQUENCE: 2
39 gcactacctc ttcatgggtg cc 22
42 <210> SEQ ID NO: 3
43 <211> LENGTH: 18
44 <212> TYPE: DNA
45 <213> ORGANISM: Artificial Sequence
47 <220> FEATURE:
48 <223> OTHER INFORMATION: primer
50 <400> SEQUENCE: 3
51 catcagtcac atacccca 18
54 <210> SEQ ID NO: 4
55 <211> LENGTH: 22
56 <212> TYPE: DNA
57 <213> ORGANISM: Artificial Sequence
59 <220> FEATURE:
60 <223> OTHER INFORMATION: primer
62 <400> SEQUENCE: 4
63 cagtgaacat gtgatccac cc 22
66 <210> SEQ ID NO: 5
67 <211> LENGTH: 13
68 <212> TYPE: DNA

pp 2-4
Does Not Comply
Corrected Diskette Needed

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Input Set : A:\PTO.FG.txt
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69 <213> ORGANISM: Artificial Sequence
71 <220> FEATURE:
72 <223> OTHER INFORMATION: internal mass standard
74 <400> SEQUENCE: 5
75 tttttctttt tct
78 <210> SEQ ID NO: 6
79 <211> LENGTH: 22
80 <212> TYPE: DNA
81 <213> ORGANISM: Artificial Sequence
83 <220> FEATURE:
84 <223> OTHER INFORMATION: primer
86 <400> SEQUENCE: 6
87 ggggaagagc agagatatac gt 22
90 <210> SEQ ID NO: 7
91 <211> LENGTH: 24
92 <212> TYPE: DNA
93 <213> ORGANISM: Artificial Sequence
95 <220> FEATURE:
96 <223> OTHER INFORMATION: primer
98 <400> SEQUENCE: 7
99 gggctccac acggcgactc tcat 24
102 <210> SEQ ID NO: 8
103 <211> LENGTH: 18
104 <212> TYPE: DNA
105 <213> ORGANISM: Artificial Sequence
107 <220> FEATURE:
108 <223> OTHER INFORMATION: primer
110 <400> SEQUENCE: 8
111 agaggatcca accgagac 18
114 <210> SEQ ID NO: 9
115 <211> LENGTH: 23
116 <212> TYPE: DNA
117 <213> ORGANISM: Artificial Sequence
119 <220> FEATURE:
120 <223> OTHER INFORMATION: primer
122 <400> SEQUENCE: 9
123 tggtggtagg tgatgttcat gta 23
126 <210> SEQ ID NO: 10
127 <211> LENGTH: 22
128 <212> TYPE: DNA
129 <213> ORGANISM: Artificial Sequence
131 <220> FEATURE:
132 <223> OTHER INFORMATION: primer
134 <400> SEQUENCE: 10
135 cacattgtca aggacgtacc cg 22
138 <210> SEQ ID NO: 11
139 <211> LENGTH: 20
140 <212> TYPE: DNA
141 <213> ORGANISM: Artificial Sequence

give source of genetic material
(see item 11
on Exam
summary
sheet)

13

RAW SEQUENCE LISTING

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DATE: 01/25/2005

TIME: 09:48:39

Input Set : A:\PTO.FG.txt
 Output Set: N:\CRF4\01252005\J521206.raw

143 <220> FEATURE:
 144 <223> OTHER INFORMATION: primer
 146 <400> SEQUENCE: 11
 147 tacccggccgt acttggcctc 20
 150 <210> SEQ ID NO: 12
 151 <211> LENGTH: 21
 152 <212> TYPE: DNA
 153 <213> ORGANISM: Artificial Sequence
 155 <220> FEATURE:
 156 <223> OTHER INFORMATION: primer
 158 <400> SEQUENCE: 12
 159 tccacgcaca aacacggaca g 21
 162 <210> SEQ ID NO: 13
 163 <211> LENGTH: 100
 164 <212> TYPE: DNA
 165 <213> ORGANISM: Artificial Sequence
 167 <220> FEATURE:
 168 <223> OTHER INFORMATION: template *give source*
 170 <400> SEQUENCE: 13
 171 tacccckgagg ccaagtacgg cgggtacgtc cttgacaatg tgtacatcaa catcacctac 60
 173 caccatgtca gtctcggttg gatcctctat tgtgtccggg 100
 176 <210> SEQ ID NO: 14
 177 <211> LENGTH: 110
 178 <212> TYPE: DNA
 179 <213> ORGANISM: Artificial Sequence
 181 <220> FEATURE:
 182 <223> OTHER INFORMATION: template
 184 <400> SEQUENCE: 14
 185 gaaggagaca cgcggccaga gagggtcctg tccgtgttg tgcgtggagt ttcgacaagg 60
 187 cagggtcatc taatggtgat gagtcctatc ctttctctt cgttctccgt 110

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 01/25/2005
PATENT APPLICATION: US/10/521,206 TIME: 09:48:40

Input Set : A:\PTO.FG.txt
Output Set: N:\CRF4\01252005\J521206.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 5

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/521,206

DATE: 01/25/2005

TIME: 09:48:40

Input Set : A:\PTO.FG.txt

Output Set: N:\CRF4\01252005\J521206.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application Number

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date